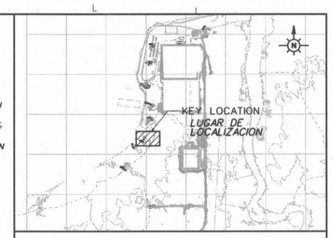
NOTES:
NOTAS:

1. THIS DRAWING ILLUSTRATES THE PLAN OF SEDIMENTATION POND #7.
   ESTE DIBUJO ILUSTRA EL PLANO DE LA POZA DE SEDIMENTACION # 7.
2. ALL ELEVATIONS, COORDINATES AND DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
   TODAS LAS ELEVACIONES, COORDENADAS Y DIMENSIONES ESTAN EN METROS A MENOS QUE SE INDIQUE LO CONTRARIO.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANY TECHNICAL SPECIFICATIONS, DESIGN REPORTS AND OTHER RELEVANT DOCUMENTS.
   ESTE DIBUJO ES PARA SER LEIDO JUNTO CON LAS ESPECIFICACIONES TECNICAS, INFORMES DE DISEÑO Y OTROS DOCUMENTOS PERTINENTES.
4. THE DAM FOUNDATION IS TO BE STRIPPED OF ORGANICS AND UNSUITABLE MATERIALS (THICKNESS VARIES). THE EXCAVATION LIMIT WILL VARY DEPENDING ON THE FIELD FOUNDATION CONDITIONS ENCOUNTERED.
   LA FUNDACION DE LA PRESA SERA LIMPIADA DE MATERIALES ORGANICOS Y NO ADECUADOS (ESPESOR VARIABLE). EL LIMITE DE EXCAVACION SERA VARIABLE DEPENDIENDO DE LAS CONDICIONES DE LA CIMENTACION ENCONTRADAS.
5. REFER TO TECHNICAL SPECIFICATIONS FOR MATERIAL AND PLACEMENT REQUIREMENTS OF VARIOUS FILL ZONES. DOCUMENTS 504832-2310-4GEF-0001
   504832-2310-4GEF-0002
   REFERIRSE A LAS ESPECIFICACIONES TECNICAS DE MATERIALES Y A LOS REQUERIMENTOS DE UBICACION DE LAS DIFERENTES ZONAS DE RELLENO.
   DOCUMENTOS 504832-2310-4GEF-0001
   504832-2310-4GEF-0002
6. IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES.
   IMPLEMENTAR MEDIDAS DE CONTROL DE EROSION Y DE SEDIMENTOS.
7. SEDIMENT CONTROL PIPE LOCATION IS FOR ILLUSTRATION PURPOSE ONLY. THE EXACT LOCATION OF THE PIPE IS ON DRAWINGS 504832-6210-41D1-0043 AND 504832-6210-41D1-0044.
   LA UBICACION DE LA TUBERIA DE CONTROL DE SEDIMENTOS ES SOLO PARA PROPOSITOS ILUSTRATIVOS. LA UBICACION EXACTA ESTA EN LOS DIBUJOS 504832-6210-41D1-0043 AND 504832-6210-41D1-0044.

CONSTRUCTION STRATEGY:
ESTRATEGIA DE CONSTRUCCION

1. CONSTRUCT COFFERDAM AND/OR IMPLEMENT DEWATERING MEASURES
   CONSTRUIR EL DIQUE Y/O IMPLEMENTAR MEDIDAS DE DESAGUE.
2. CONSTRUCT CONSTRUCTION DIVERSION CHANNEL, IF APPLICABLE.
   CONSTRUIR EL CANAL DE DESVIO DE CONSTRUCCION, SI APLICA.
3. PREPARE FOUNDATION INCLUDING GRUBBING AND STRIPPING.
   PREPARAR LA FUNDACION INCLUYENDO DESHERBE Y LIMPIEZA.
4. CONSTRUCT DISCHARGE PIPE FOR NORMAL OPERATING WATER LEVEL.
   CONSTRUIR LA TUBERIA DE DESCARGA PARA LA OPERACION NORMAL DEL NIVEL DEL AGUA.
5. INSTALL INLET STRUCTURE
   INSTALAR LA ESTRUCTURA DE ENTRADA
6. FILL THE DIVERSION CHANNEL IF APPLICABLE. PLACE ENGINEERING FILL AND SEEPAGE COLLARS AROUND ALL PIPES
   LLENAR EL CANAL DE DESVIO. COLOCAR LOS LLENOS Y LOS COLLARES DE FILTRACION ALREDEDOR DE TODA LA TUBERIA
7. CONSTRUCT MAIN DAM AND SPILLWAY
   CONSTRUIR PRESA PRINCIPAL Y VERTEDERO
8. SEAL THE LOWER INLET TO THE INLET STRUCTURE
   SELLAR LA PARTE BAJA HACIA LA ESTRUCTURA DE ENTRADA.



KEY PLAN
PLANO CLAVE

REPRESENTANTE LEGAL
LEGAL REPRESENTATIVE

DOCUMENTO DE INDENTIFICACIÓN:
IDENTIFICATION DOCUMENT:

TITULO
PROYECTO MINA DE COBRE PANAMA
DESAROLLO DEL SITIO DE PUERTO
PREPARACION DEL SITIO DE PUERTO
POZA DE SEDIMETACION 7 - CONTRATO C-9012A
PLANO

Minera Panamá

CLIENT

CLIENT DWG. NO.

JVP Joint Venture Panama Inc.

ESTE PLANO ES PROPIEDAD DE JOINT VENTURE PANAMA (JVP). SU USO Y REPRODUCCION ESTAN SUJETOS A LOS TERMINOS DEL CONTRATO BAJO EL CUAL FUE PREPARADO. PROHIBIDA SU REPRODUCCION A MENOS QUE SEA EXPRESAMENTE AUTORIZADO.

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PROFESSIONAL ENGINEER | NAME | NO.

TITLE
MINA DE COBRE PANAMA PROJECT
PORT SITE
SEDIMENTATION POND DAM 7
PLAN

SCALE IN METRES
ESCALE EN METROS
0 5 10 15
10

JVP	NAME (PRINT)	INIT.	DATE
DESIGNED	L. LAU	L.L.	12/10/02
DRAWN	A. CARRILLO		12/10/02
CHECKED	H. BABA		12/10/02
APPROVED LEAD ENG.	W. PALMER		12/10/02
APPROVED ENG. MAN.	T. PREISIG		12/10/02
APPROVED AREA MAN.			
CLIENT APPROVED AREA LEAD.			
CLIENT APPROVED ENG. MAN.			

SCALE 1:300

PROJECT NO.	AREA	DISC.	DOC.	DRAWING NUMBER	REVISION NUMBER
504832	6210	4G	D1	0032	PA

Format "A0" Sheet Size

DWG. NO.	REFERENCES
6210-41D1-0044	PORT SITE DEVELOPMENT - PORT SITE PREPARATION SEDIMENTATION POND 7- SECTIONS
6210-41D1-0030	PORT SITE DEVELOPMENT - PORT SITE PREPARATION SEDIMENTATION POND - OVERALL LAYOUT

NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.
PA	12/10/02	ISSUED FOR INTERNAL REVIEW							

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NOTES:
NOTAS:

1. THIS DRAWING ILLUSTRATES THE PLAN OF SEDIMENTATION POND • 7.
   ESTE DIBUJO ILUSTRA EL PLANO DE LA POZA DE SEDIMENTACION • 7.
2. ALL ELEVATIONS, COORDINATES AND DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
   TODAS LAS ELEVACIONES, COORDENADAS Y DIMENSIONES ESTAN EN METROS A MENOS QUE SE INDIQUE LO CONTRARIO.
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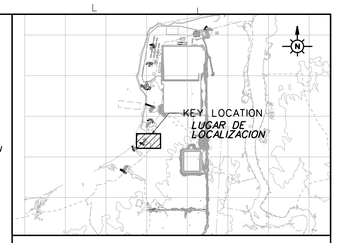
   ESTE DIBUJO ES PARA SER LEIDO JUNTO CON LAS ESPECIFICACIONES TECNICAS, INFORMES DE DISEÑO Y OTROS DOCUMENTOS PERTINENTES.
4. THE DAM FOUNDATION IS TO BE STRIPPED OF ORGANICS AND UNSUITABLE MATERIALS (THICKNESS VARIES). THE EXCAVATION LIMIT WILL VARY DEPENDING ON THE FIELD FOUNDATION CONDITIONS ENCOUNTERED.
   LA FUNDACION DE LA PRESA SERA LIMPIADA DE MATERIALES ORGANICOS Y NO ADECUADOS (ESPESOR VARIABLE). EL LIMITE DE EXCAVACION SERA VARIABLE DEPENDIENDO DE LAS CONDICIONES DE LA CIMENTACION ENCONTRADAS.
5. REFER TO TECHNICAL SPECIFICATIONS FOR MATERIAL AND PLACEMENT REQUIREMENTS OF VARIOUS FILL ZONES. DOCUMENTS 504832-2310-4GEF-0001
   504832-2310-4GEF-0002
   REFERIRSE A LAS ESPECIFICACIONES TECNICAS DE MATERIALES Y A LOS REQUERIMENTOS DE UBICACION DE LAS DIFERENTES ZONAS DE RELLENO.
   DOCUMENTOS 504832-2310-4GEF-0001
   504832-2310-4GEF-0002
6. IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES.
   IMPLEMENTAR MEDIDAS DE CONTROL DE EROSION Y DE SEDIMENTOS.
7. SEDIMENT CONTROL PIPE LOCATION IS FOR ILLUSTRATION PURPOSE ONLY. THE EXACT LOCATION OF THE PIPE IS ON DRAWINGS 504832-6210-41D1-0043 AND 504832-6210-41D1-0044.
   LA UBICACION DE LA TUBERIA DE CONTROL DE SEDIMENTOS ES SOLO PARA PROPOSITOS ILUSTRATIVOS. LA UBICACION EXACTA ESTA EN LOS DIBUJOS 504832-6210-41D1-0043 AND 504832-6210-41D1-0044.

CONSTRUCTION STRATEGY:
ESTRATEGIA DE CONSTRUCCION

1. CONSTRUCT COFFERDAM AND/OR IMPLEMENT DEWATERING MEASURES
   CONSTRUIR EL DIQUE Y/O IMPLEMENTAR MEDIDAS DE DESAGUE.
2. CONSTRUCT CONSTRUCTION DIVERSION CHANNEL, IF APPLICABLE.
   CONSTRUIR EL CANAL DE DESVIO DE CONSTRUCCION, SI APLICA.
3. PREPARE FOUNDATION INCLUDING GRUBBING AND STRIPPING.
   PREPARAR LA FUNDACION INCLUYENDO DESHIERBE Y LIMPIEZA.
4. CONSTRUCT DISCHARGE PIPE FOR NORMAL OPERATING WATER LEVEL.
   CONSTRUIR LA TUBERIA DE DESCARGA PARA LA OPERACION NORMAL DEL NIVEL DEL AGUA.
5. INSTALL INLET STRUCTURE
   INSTALAR LA ESTRUCTURA DE ENTRADA
6. FILL THE DIVERSION CHANNEL IF APPLICABLE. PLACE ENGINEERING FILL AND SEEPAGE COLLARS AROUND ALL PIPES
   LLENAR EL CANAL DE DESVIO. COLOCAR LOS LLENOS Y LOS COLLARES DE FILTRACION ALREDEDOR DE TODA LA TUBERIA
7. CONSTRUCT MAIN DAM AND SPILLWAY
   CONSTRUIR PRESA PRINCIPAL Y VERTEDERO
8. SEAL THE LOWER INLET TO THE INLET STRUCTURE
   SELLAR LA PARTE BAJA HACIA LA ESTRUCTURA DE ENTRADA.



KEY PLAN
PLANO CLAVE

REPRESENTANTE LEGAL
LEGAL REPRESENTATIVE

_____ _____

DOCUMENTO DE INDENTIFICACIÓN:
IDENTIFICATION DOCUMENT:

TITULO
PROYECTO MINA DE COBRE PANAMA
DESAROLLO DEL SITIO DE PUERTO
PREPARACION DEL SITIO DE PUERTO
POZA DE SEDIMETACION 7 - CONTRATO C-9012A
PLANO

Minera Panamá

SCALE IN METRES
ESCALA EN METROS

DESIGNED	L. LAU		12/10/02
DRAWN	A. CARRILLO		12/10/02
CHECKED	H. BABA		12/10/02
APPROVED LEAD ENG.	W. PALMER		12/10/02
APPROVED ENG. MAN.	T. PREISIG		12/10/02
APPROVED AREA MAN.			
APPROVED AREA LEAD.			
APPROVED ENG. MAN.			
SCALE 1:300	NAME (PRINT)	INIT.	DATE

CLIENT

JVP Joint Venture Panama Inc.

CLIENT DWG. NO.

JOINT VENTURE (JV) PROPIEDAD DE JOINT VENTURE (PANAMA LAPI). SU USO Y REPRODUCCIÓN ESTÁN SUJETOS A LOS TÉRMINOS DEL CONTRATO (AIA) EL CUAL FUE PREPARADO PRIORMENTE SIN REPRODUCCIÓN A MENOS QUE SEA EXPRESAMENTE INDICADO.

THIS DRAWING IS THE PROPERTY OF JOINT VENTURE PANAMA LAPI, AND THE USE AND COPYING THEREOF IS SUBJECT TO THE TERMS OF THE AIA CONTRACT UNDER WHICH IT WAS PREPARED. THIS DRAWING MAY NOT BE COPIED EXCEPT AS EXPRESSLY PROVIDED THEREIN.

PROFESSIONAL ENGINEER NAME NO.

TITLE
MINA DE COBRE PANAMA PROJECT
PORT SITE
SEDIMENTATION POND DAM 7
PLAN

PROJECT NO.	AREA	DISC.	DOC.	DRAWING NUMBER	REVISION NUMBER
504832	6210	4G	D1	0032	PA

Format 'AD' Sheet Size

DWG. NO.	REFERENCES
6210-41D1-0044	PORT SITE DEVELOPMENT - PORT SITE PREPARATION SEDIMENTATION POND 7- SECTIONS
6210-41D1-0030	PORT SITE DEVELOPMENT - PORT SITE PREPARATION SEDIMENTATION POND - OVERALL LAYOUT

NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.
PA	12/10/02	ISSUED FOR INTERNAL REVIEW							

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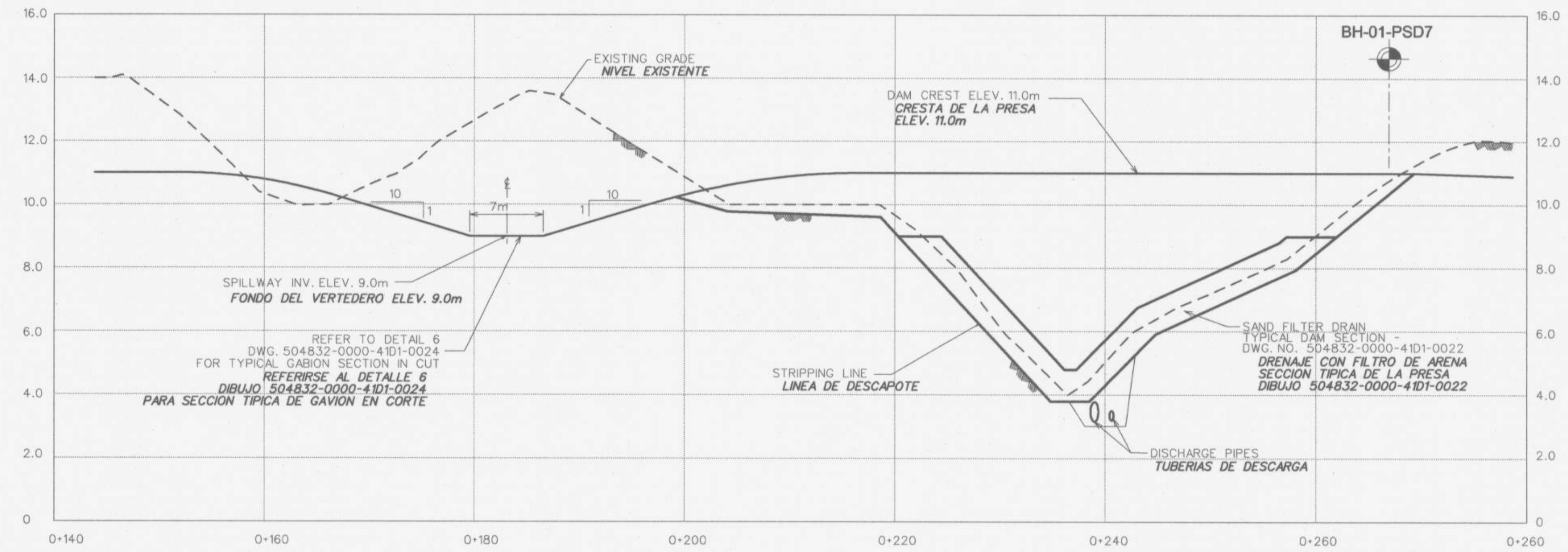
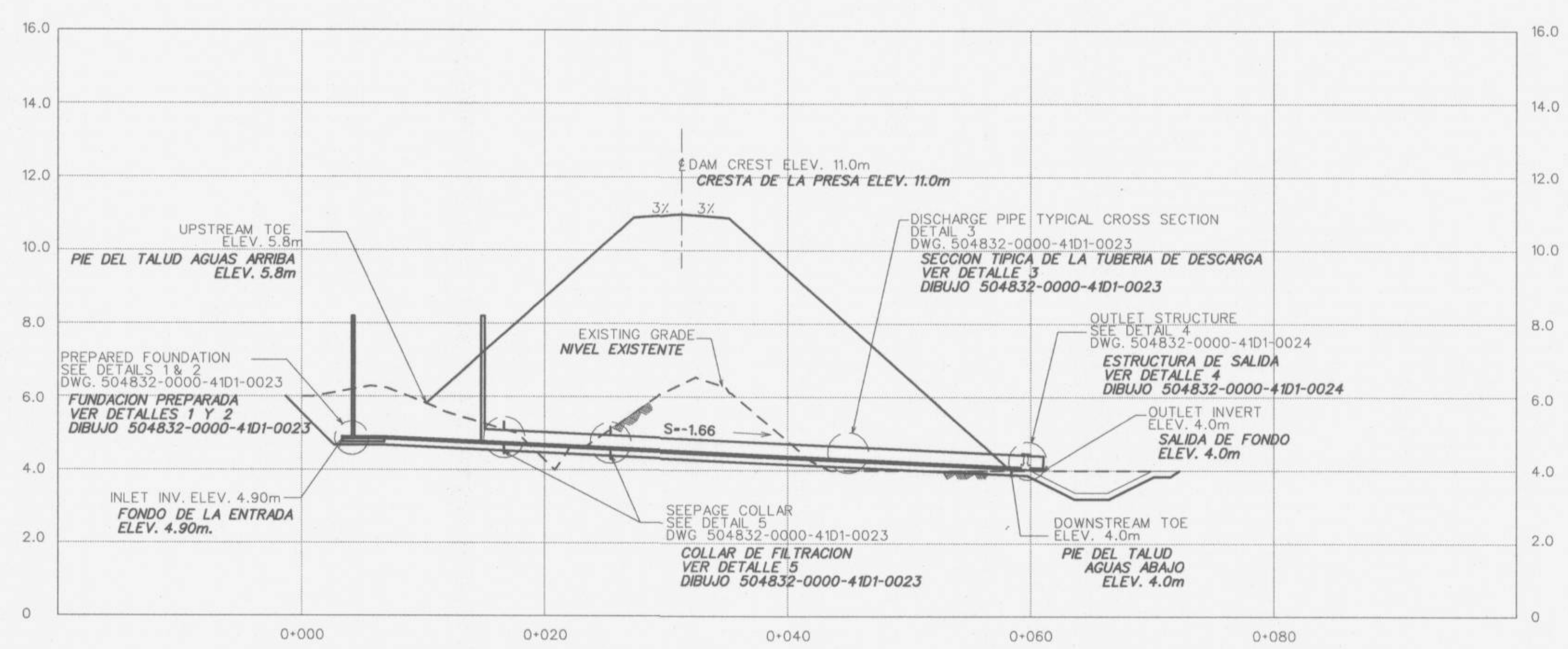
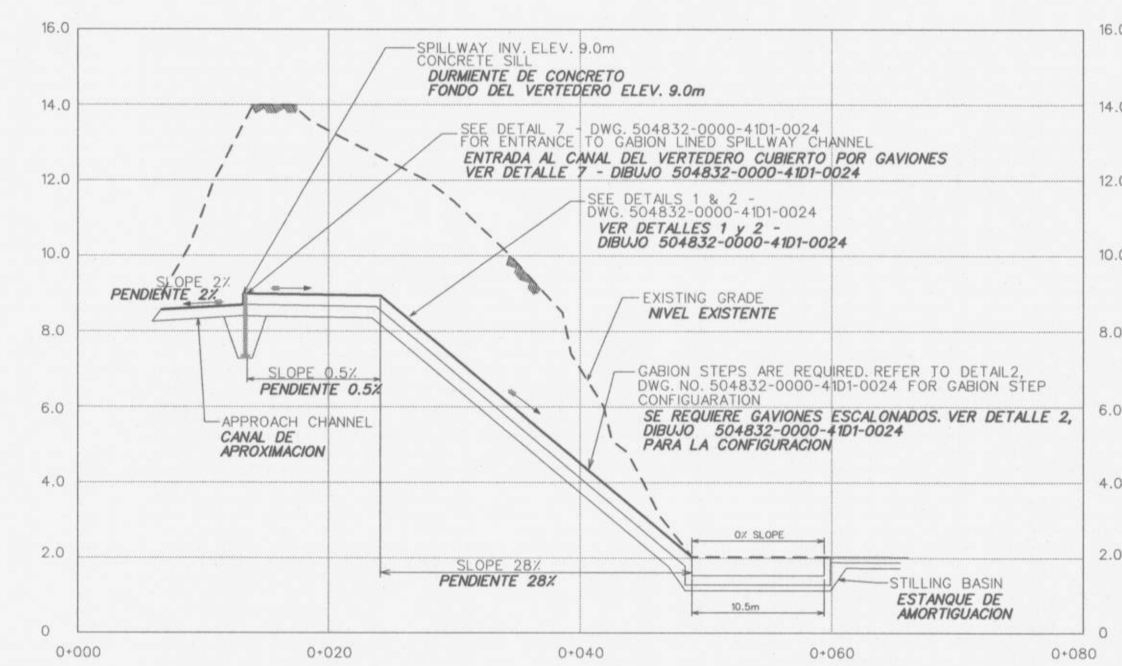


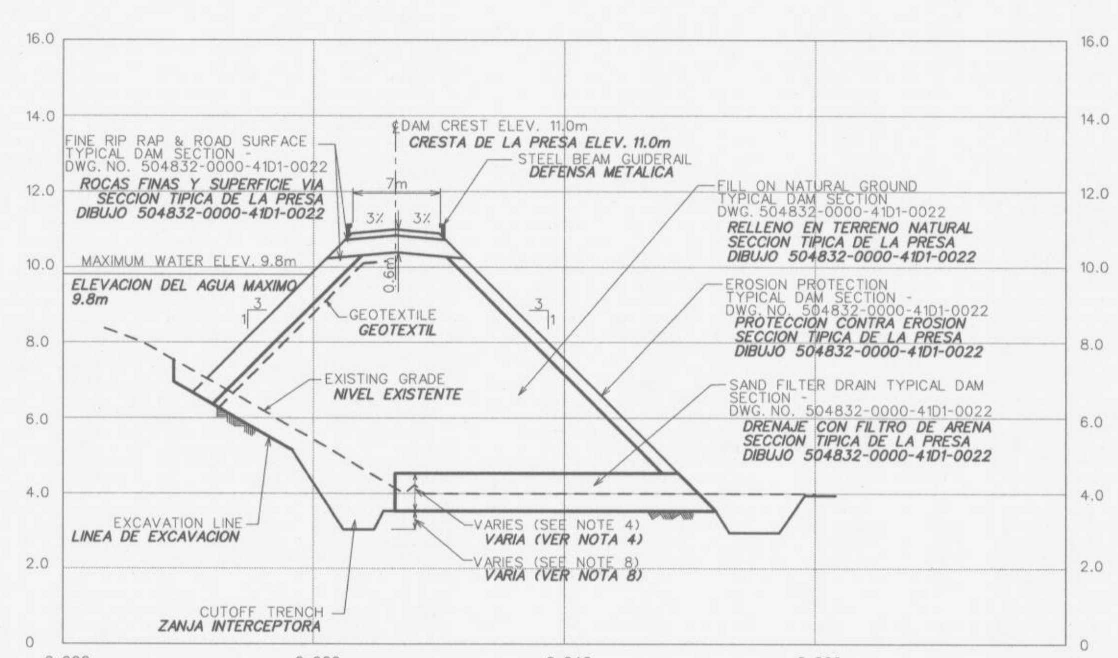
SECTION A-A (DWG. 504832-6210-41D1-0043)
LONGITUDINAL PROFILE ALONG DAM 7 CENTER LINE
SCALE 1:300 HOR.
1:100 VERT.
SECCION A-A
PERFIL LONGITUDINAL A LO LARGO DE LA LINEA CENTRAL DE LA PRESA 7
ESCALA 1:300 HOR.
1:100 VERT.



SECTION B-B (DWG. 504832-6210-41D1-0043)
PROFILE ALONG DISCHARGE PIPE
SCALE 1:300 HOR.
1:100 VERT.
SECCION B-B
PERFIL A LO LARGO DE LA TUBERIA DE DESCARGA
ESCALA 1:300 HOR.
1:100 VERT.



SECTION C-C (DWG. 504832-6210-41D1-0043)
PROFILE ALONG SPILLWAY
SCALE 1:300 HOR.
1:100 VERT.
SECCION C-C
PERFIL A LO LARGO DEL VERTEDERO
ESCALA 1:300 HOR.
1:100 VERT.



SECTION D-D (DWG. 504832-6210-41D1-0043)
SCALE 1:300 HOR.
1:100 VERT.
SECCION D-D
ESCALA 1:300 HOR.
1:100 VERT.

SPILLWAY DIMENSIONS*
*DIMENSIONES VERTEDERO**

SPILLWAY HEIGHT (H)(m) *ALTURA VERTEDERO*	SLOPE(m) *PENDIENTE*	GABION HEIGHT (h3)(m) *ALTURA GAVION*	WIDTH(B1)(m) *ANCHO*
7.0	28.0	0.5	7.0

STILLING BASIN DIMENSIONS*
*DIMENSIONES ESTANQUE DE AMORTIGUACION**

LENGTH (L) (m) *LONGITUD*	COUNTERWEIR (h2) *VERTEDERO DE REBOSE*	WIDTH (B2) *ANCHO*	SIDE WALL ON STILLING BASINS *PARED LATERAL EN EST. AMORTIGUACION*
11.0	1.0	7.0	1.5

* FOR PROFILE OF SPILLWAY AND STILLING BASIN SEE DWG. 504832-0000-41D1-0022
PARA PERFIL DEL VERTEDERO Y DEL ESTANQUE DE AMORTIGUACION VER DIBUJO 504832-0000-41D1-0022

NOTES:
NOTAS:

1. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THIS DRAWING ARE IN METERS.
TODAS LAS DIMENSIONES Y ELEVACIONES MOSTRADAS EN ESTE DIBUJO ESTAN EN METROS.
2. THIS DRAWING ILLUSTRATE THE SECTIONS OF THE DAM AND SPILLWAY OF SEDIMENTATION POND 7.
ESTE DIBUJO ILUSTRA LAS SECCIONES DE LA PRESA Y VERTEDERO DE LA POZA DE SEDIMENTACION 7.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANY TECHNICAL SPECIFICATIONS, DESIGNS REPORTS AND RELEVANT OTHER DOCUMENTS.
ESTE DIBUJO ES PARA SER LEIDO JUNTO CON LAS ESPECIFICACIONES TECNICAS, INFORMES DE DISEÑO Y OTROS DOCUMENTOS PERTINENTES.
4. THE DAM FOUNDATION IS TO BE STRIPPED OF ORGANICS AND THE REMOVAL OF UNSUITABLES MATERIALS (VARIES THICKNESS). THE EXCAVATION LIMIT WILL VARY DEPENDING ON THE FIELD FOUNDATION CONDITIONS ENCOUNTERED.
LA FUNDACION DE LA PRESA SERA LIMPIADA DE MATERIAL ORGANICO Y SE ELIMINARAN LOS MATERIALES NO ADECUADOS (ESPESOR VARIABLE). EL LIMITE DE EXCAVACION SERA VARIABLE DEPENDIENDO DE LAS CONDICIONES DE LA CIMENTACION ENCONTRADAS.
5. ALL FILL MATERIALS ARE TO BE OBTAINED FROM AN APPROVED SOURCE. 25cm OF OVERBUILD TO BE ALLOWED FOR POST CONSTRUCTION SETTLEMENT.
TODO MATERIAL DE RELLENO SERA OBTENIDO DESDE UNA FUENTE APROBADA. 25cm DE SOBRE DIMENSIONAMIENTO SERAN PERMITIDOS PARA ABSORVER ASENTAMIENTOS DESPUES DE LA CONSTRUCCION.
6. TRENCH WILL BE REQUIRED TO ACCOMMODATE THE DISCHARGE PIPE AND INTAKE STRUCTURE. THE DEPTH OF TRENCH WILL VARY FOR VARIOUS DAMS DEPENDING ON ACTUAL GROUND ELEVATION AND TO MEET THE DESIGN ELEVATIONS FOR THE INTAKE STRUCTURE.
SE REQUERIRA UNA ZANJA PARA ACOMODAR LA TUBERIA DE DESCARGA Y LA ESTRUCTURA DE TOMA. LA PROFUNDIDAD DE LA ZANJA VARIARA PARA VARIAS PRESAS DEPENDIENDO DE LA ELEVACION DEL NIVEL EXISTENTE Y CUMPLIR CON LAS ELEVACIONES DE DISEÑO PARA LA ESTRUCTURA DE TOMA.
7. FOR TYPICAL SECTIONS AND DETAILS SEE DWG:
504832-0000-41D1-0022
504832-0000-41D1-0023
504832-0000-41D1-0024
PARA SECCIONES Y DETALLES TIPICOS VER DIBUJOS:
504832-0000-4lDl-0022
504832-0000-4lDl-0023
504832-0000-4lDl-0024
8. DEPTH OF CUTOFF TRENCH TO BE DETERMINATED ON SITE BY THE ENGINEER
LA PROFUNDIDAD DE LA ZANJA INTERCEPTORA SERA DETERMINADA EN SITIO POR EL INGENIERO.

REPRESENTANTE LEGAL
LEGAL REPRESENTATIVE

DOCUMENTO DE INDENTIFICACIÓN:
IDENTIFICATION DOCUMENT:

TITULO
PROYECTO MINA DE COBRE PANAMA
DESAROLLO DEL SITIO DE PUERTO
PREPARACION DEL SITIO DE PUERTO
POZA DE SEDIMENTACION 7 - CONTRATO C-9012A
SECCIONES

Minera Panamá

RELEASED FOR CONSTRUCTION

SCALE IN METRES
ESCALA EN METROS
0 5 10 15

DWG. NO.	REFERENCES
0000-41D1-0024	GENERAL-SITE DEVELOPMENT-SEDIMENTATION PONDS - TYPICAL DETAILS FOR SPILLWAYS & DISCHARGE PIPES
0000-41D1-0023	GENERAL-SITE DEVELOPMENT-SEDIMENTATION PONDS - TYPICAL DETAILS FOR INLET DISCHARGE PIPE STRUCT.
0000-41D1-0022	GENERAL - SITE DEVELOPMENT- SEDIMENTATION PONDS - TYPICAL DAM SECTIONS
6210-41D1-0043	PORT SITE PREPARATION - SEDIMENTATION POND 7 - PLAN

NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.
03	12/09/26	RELEASED FOR CONSTRUCTION		PY	TP	TP			
02	12/08/21	GENERAL REVISION- RELEASED FOR CLIENT REVIEW	WC	TF	TF	BM			
01	12/05/25	FORMAT SHEET REVISED	WC	WP	WP	BM	BM		
00	12/04/19	RELEASED FOR CONSTRUCTION	WC	HB	WP	BM			

	NAME (PRINT)	INIT.	DATE
DESIGNED	K. HOJKA	KH	12/02/13
DRAWN	W. CAPANO	WC	12/03/02
CHECKED	H. BABA		
APPROVED LEAD ENG.	W.PALMER	WP	12/09/27
APPROVED ENG MAN.	Prezig	TP	27Sep12
APPROVED AREA MAN.	Woodall	JW	27/9/12
APPROVED AREA LEAD.			
APPROVED ENG. MAN.			

SCALE 1:300

CLIENT
JVP Joint Venture Panama Inc.
CLIENT DWG. NO.

ESTE PLANO ES PROPIEDAD DE JOINT VENTURE PANAMA (JVP), SU USO Y REPRODUCCION ESTAN SUJETOS A LOS TERMINOS DEL CONTRATO BAJO EL CUAL FUE PREPARADO. PROHIBIDA SU REPRODUCCION A MENOS QUE SEA EXPRESAMENTE INDICADO.
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PROFESSIONAL ENGINEER | NAME | NO.

TITLE
MINA DE COBRE PANAMA PROJECT
PORT SITE DEVELOPMENT
PORT SITE PREPARATION
SEDIMENTATION POND 7 - CONTRACT C-9012A
SECTIONS

PROJECT NO.	AREA	DISC.	DOC.	DRAWING NUMBER	REVISION NUMBER
504832	6210	41	D1	0044	03

Format 'A0' Sheet Size

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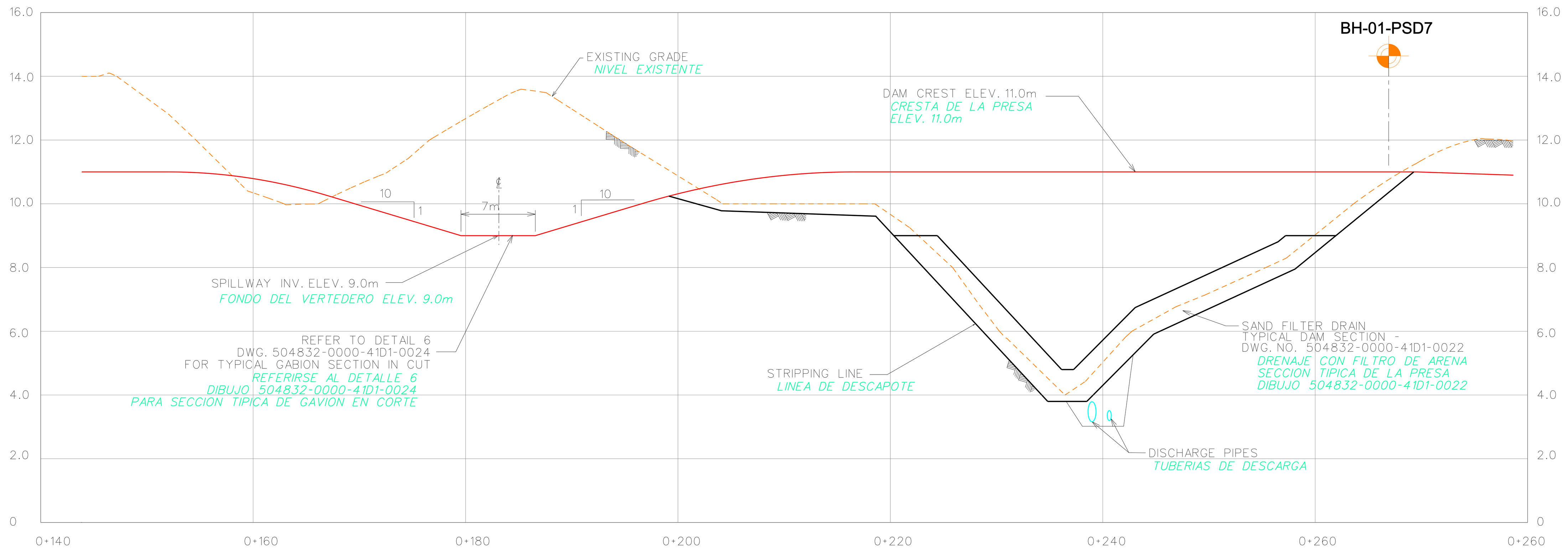

SECTION A-A (DWG. 504832-6210-41D1-0043)

LONGITUDINAL PROFILE ALONG DAM 7 CENTER LINE

SCALE 1:300 HOR.
1:100 VERT.

SECCION A-A

PERFIL LONGITUDINAL A LO LARGO DE LA LINEA CENTRAL DE LA PRESA 7

ESCALA 1:300 HOR.
1:100 VERT.

SPILLWAY DIMENSIONS*
*DIMENSIONES VERTEDERO**

SPILLWAY HEIGHT [H](m) *ALTURA VERTEDERO*	SLOPE(m) *PENDIENTE*	GABION HEIGHT (h3)(m) *ALTURA GAVION*	WIDTH(B1)(m) *ANCHO*
7.0	28.0	0.5	7.0

STILLING BASIN DIMENSIONS*
*DIMENSIONES ESTANQUE DE AMORTIGUACION**

LENGTH (L) (m) *LONGITUD*	COUNTERWEIR (h2) *VERTEDERO DE REBOSE*	WIDTH (B2) *ANCHO*	SIDE WALL ON STILLING BASINS *PARED LATERAL EN EST. AMORTIGUACION*
11.0	1.0	7.0	1.5

* FOR PROFILE OF SPILLWAY AND STILLING BASIN SEE DWG. 504832-0000-41D1-0022
PARA PERFIL DEL VERTEDERO Y DEL ESTANQUE DE AMORTIGUACION VER DIBUJO 504832-0000-41D1-0022

NOTES:
NOTAS:

1. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THIS DRAWING ARE IN METERS.
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ESTE DIBUJO ES PARA SER LEIDO JUNTO CON LAS ESPECIFICACIONES TECNICAS, INFORMES DE DISEÑO Y OTROS DOCUMENTOS PERTINENTES.
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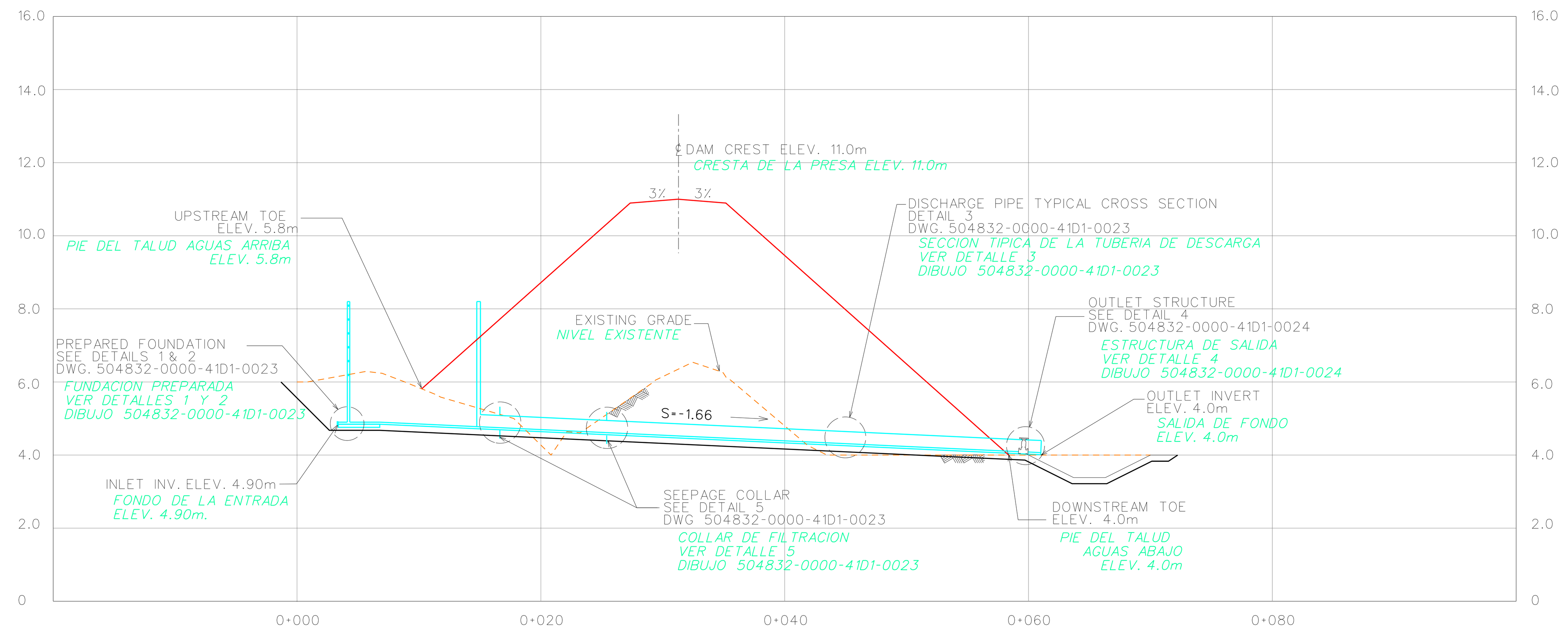
5. ALL FILL MATERIALS ARE TO BE OBTAINED FROM AN APPROVED SOURCE. 25cm OF OVERBUILD TO BE ALLOWED FOR POST CONSTRUCTION SETTLEMENT.
TODO MATERIAL DE RELLENO SERA OBTENIDO DESDE UNA FUENTE APROBADA. 25cm DE SOBRE DIMENSIONAMIENTO SERAN PERMITIDOS PARA ABSORVER ASENTAMIENTOS DESPUES DE LA CONSTRUCCION.
6. TRENCH WILL BE REQUIRED TO ACCOMMODATE THE DISCHARGE PIPE AND INTAKE STRUCTURE. THE DEPTH OF TRENCH WILL VARY FOR VARIOUS DAMS DEPENDING ON ACTUAL GROUND ELEVATION AND TO MEET THE DESIGN ELEVATIONS FOR THE INTAKE STRUCTURE.
SE REQUERIRA UNA ZANJA PARA ACOMODAR LA TUBERIA DE DESCARGA Y LA ESTRUCTURA DE TOMA. LA PROFUNDIDAD DE LA ZANJA VARIARA PARA VARIAS PRESAS DEPENDIENDO DE LA ELEVACION DEL NIVEL EXISTENTE Y CUMPLIR CON LAS ELEVACIONES DE DISEÑO PARA LA ESTRUCTURA DE TOMA.
7. FOR TYPICAL SECTIONS AND DETAILS SEE DWG:
504832-0000-41D1-0022
504832-0000-41D1-0023
504832-0000-41D1-0024
PARA SECCIONES Y DETALLES TIPICOS VER DIBUJOS:
504832-0000-41D1-0022
504832-0000-41D1-0023
504832-0000-41D1-0024
8. DEPTH OF CUTOFF TRENCH TO BE DETERMINATED ON SITE BY THE ENGINEER
LA PROFUNDIDAD DE LA ZANJA INTERCEPTORA SERA DETERMINADA EN SITIO POR EL INGENIERO.



SECTION B-B (DWG. 504832-6210-41D1-0043)

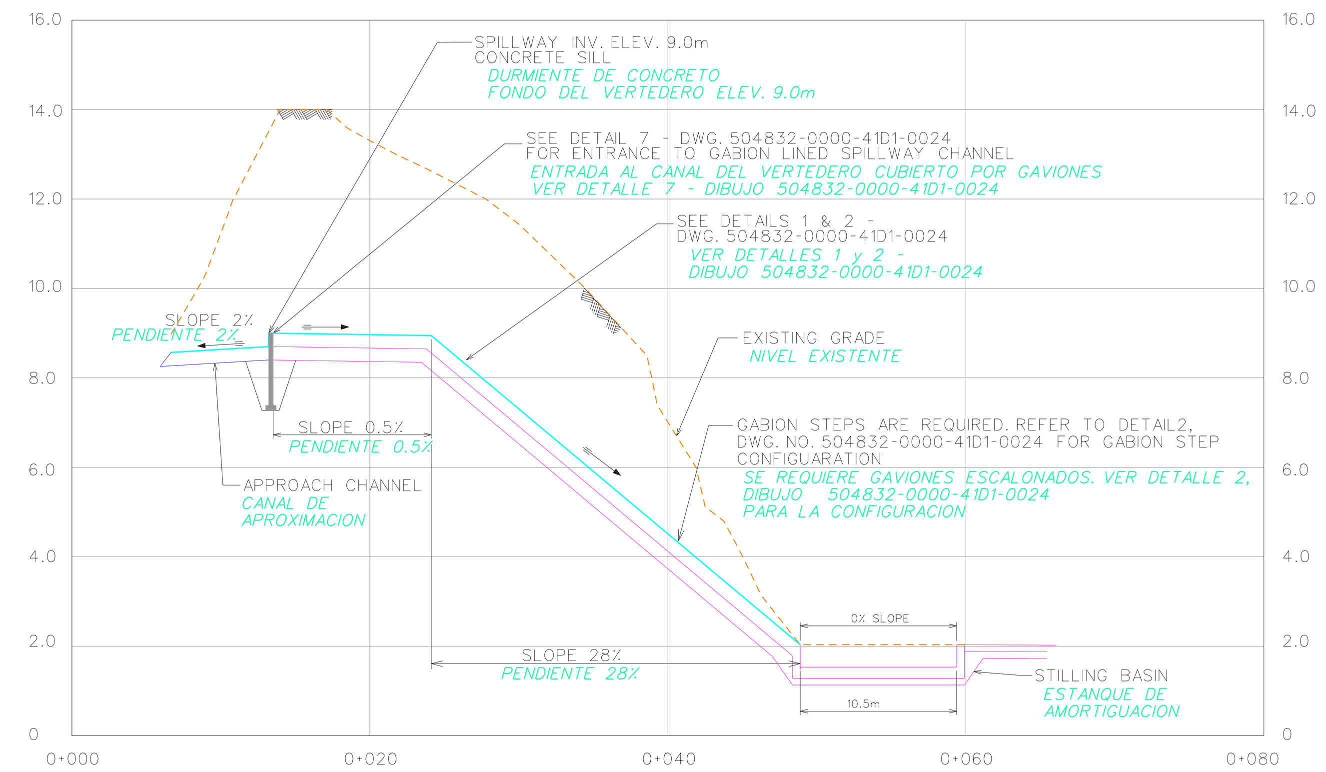
PROFILE ALONG DISCHARGE PIPE

SCALE 1:300 HOR.
1:100 VERT.

SECCION B-B

PERFIL A LO LARGO DE LA TUBERIA DE DESCARGA

ESCALA 1:300 HOR.
1:100 VERT.



SECTION C-C (DWG. 504832-6210-41D1-0043)

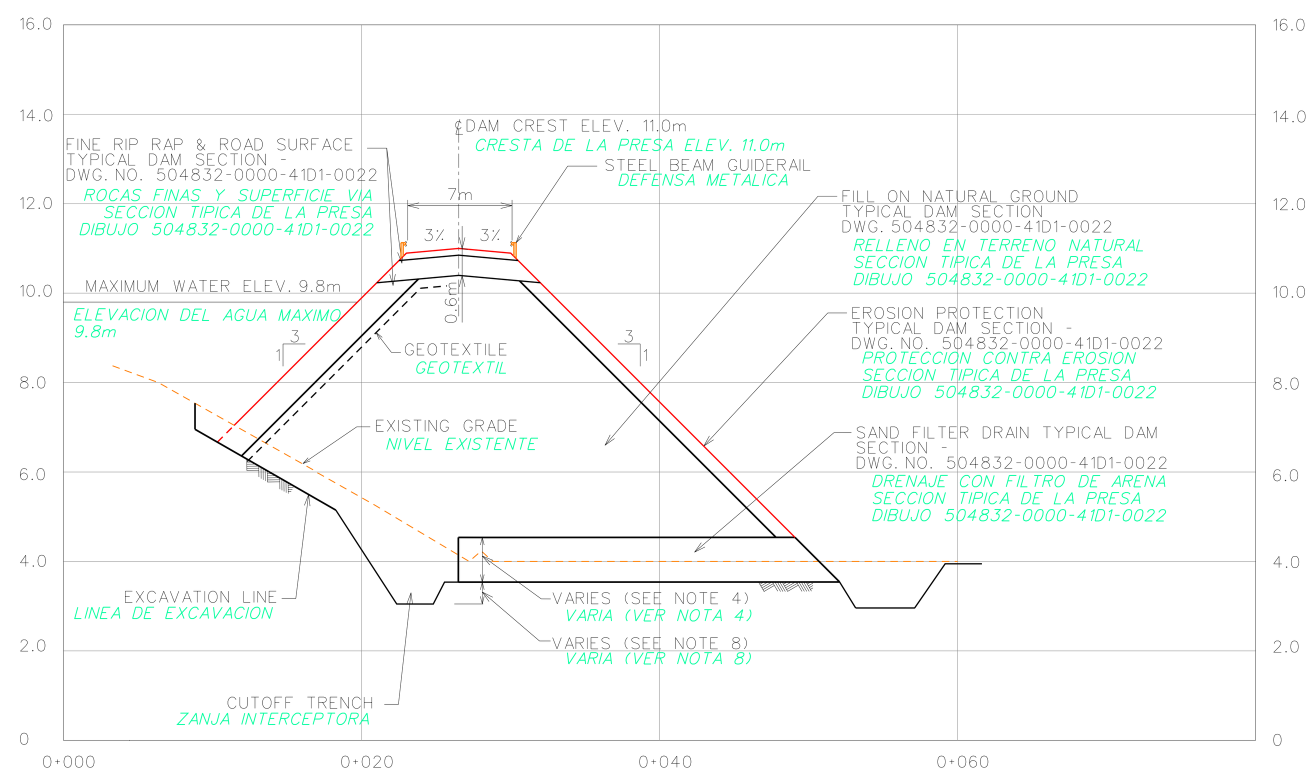
PROFILE ALONG SPILLWAY

SCALE 1:300 HOR.
1:100 VERT.

SECCION C-C

PERFIL A LO LARGO DEL VERTEDERO

ESCALA 1:300 HOR.
1:100 VERT.



SECTION D-D (DWG. 504832-6210-41D1-0043)

SCALE 1:300 HOR.
1:100 VERT.

SECCION D-D

ESCALA 1:300 HOR.
1:100 VERT.

RELEASED FOR CONSTRUCTION

SCALE IN METRES
ESCALA EN METROS

DWG. NO.	REFERENCES
0000-41D1-0024	GENERAL-SITE DEVELOPMENT-SEDIMENTATION PONDS - TYPICAL DETAILS FOR SPILLWAYS & DISCHARGE PIPES
0000-41D1-0023	GENERAL-SITE DEVELOPMENT-SEDIMENTATION PONDS - TYPICAL DETAILS FOR INLET DISCHARGE PIPE STRUCT.
0000-41D1-0022	GENERAL - SITE DEVELOPMENT- SEDIMENTATION PONDS - TYPICAL DAM SECTIONS
6210-41D1-0043	PORT SITE PREPARATION - SEDIMENTATION POND 7 - PLAN

NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.
03	12/09/26	RELEASED FOR CONSTRUCTION							
02	12/08/21	GENERAL REVISION- RELEASED FOR CLIENT REVIEW	WC	TF	TF	BM			
01	12/05/25	FORMAT SHEET REVISED	WC	WP	WP	BM	BM		
00	12/04/19	RELEASED FOR CONSTRUCTION	WC	HB	WP	BM			

JVP	NAME (PRINT)	INIT.	DATE
DESIGNED	K. HOJKA	KH	12/02/13
DRAWN	W. CAPANO	WC	12/03/02
CHECKED	H. BABA		
APPROVED LEAD ENG.	W.PALMER		
APPROVED ENG. MAN.			
APPROVED AREA MAN.			
CLIENT APPROVED AREA LEAD.			
CLIENT APPROVED ENG. MAN.			

SCALE 1:300

REPRESENTANTE LEGAL
LEGAL REPRESENTATIVE

DOCUMENTO DE INDENTIFICACIÓN:
IDENTIFICATION DOCUMENT:

TITULO
PROYECTO MINA DE COBRE PANAMA
DESAROLLO DEL SITIO DE PUERTO
PREPARACION DEL SITIO DE PUERTO
POZA DE SEDIMENTACION 7 - CONTRATO C-9012A
SECCIONES

Minera Panamá

CLIENT

CLIENT DWG. NO.

JVP Joint Venture Panama Inc.

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PROFESSIONAL ENGINEER | NAME | NO.

TITLE
MINA DE COBRE PANAMA PROJECT
PORT SITE DEVELOPMENT
PORT SITE PREPARATION
SEDIMENTATION POND 7 - CONTRACT C-9012A
SECTIONS

PROJECT NO.	AREA	DISC.	DOC.	DRAWING NUMBER	REVISION NUMBER
504832	6210	41	D1	0044	03

Format 'A0' Sheet Size

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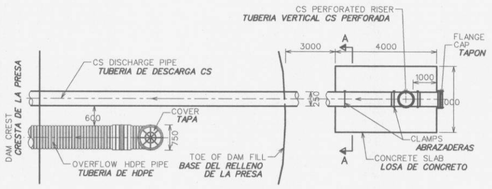
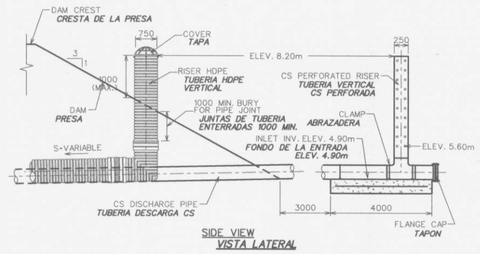
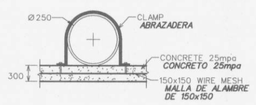


PLAN
PLANO



SIDE VIEW
VISTA LATERAL

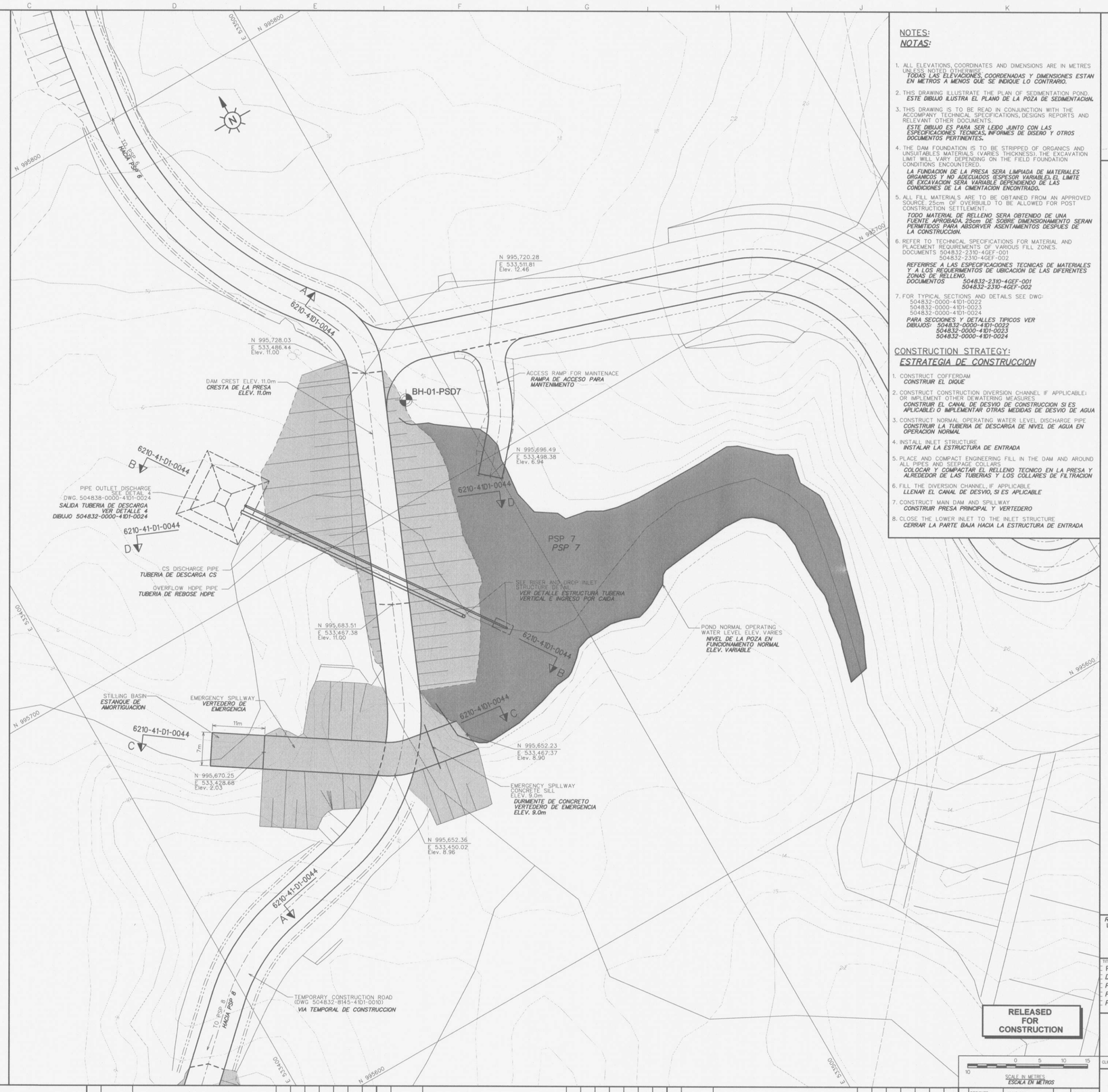


HOLES IN RISER PIPE
PERFORACIONES EN LA TUBERIA VERTICAL

ELEV. (m) ELEV.	DIAMETER (mm) DIAMETRO	No. HOLES PER ELEV. No. DE PERFORACIONES POR ELEV.
5.60	75	4
6.10	75	4
6.40	100	4
6.80	100	4
7.10	100	4
7.40	100	4
7.70	100	4
8.00	100	4

RISER AND DROP INLET STRUCTURE DETAIL
REFER TO DWG. 504832-0000-41D1-0023 (DETAIL 02)
NOT TO SCALE

DETALLE ESTRUCTURA TUBERIA VERTICAL E INGRESO POR CAIDA
REFERIRSE AL DIBUJO 504832-0000-41D1-0023 (DETALLE 02)
SIN ESCALA



NOTES:
NOTAS:

1. ALL ELEVATIONS, COORDINATES AND DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
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2. THIS DRAWING ILLUSTRATE THE PLAN OF SEDIMENTATION POND.
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3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANY TECHNICAL SPECIFICATIONS, DESIGNS REPORTS AND RELEVANT OTHER DOCUMENTS.
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4. THE DAM FOUNDATION IS TO BE STRIPPED OF ORGANICS AND UNSUITABLES MATERIALS (VARIES THICKNESS). THE EXCAVATION LIMIT WILL VARY DEPENDING ON THE FIELD FOUNDATION CONDITIONS ENCOUNTERED.
   LA FUNDACION DE LA PRESA SERA LIMPIADA DE MATERIALES ORGANICOS Y NO ADECUADOS (ESPESOR VARIABLE). EL LIMITE DE EXCAVACION SERA VARIABLE DEPENDIENDO DE LAS CONDICIONES DE LA CIMENTACION ENCONTRADO.
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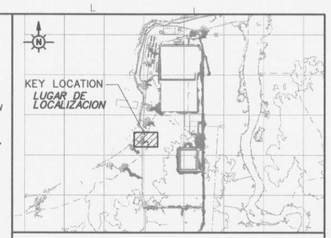
   DOCUMENTS 504832-2310-4GEF-001
   504832-2310-4GEF-002
   REFERIRSE A LAS ESPECIFICACIONES TECNICAS DE MATERIALES Y A LOS REQUERIMENTOS DE UBICACION DE LAS DIFERENTES ZONAS DE RELLENO.
   DOCUMENTOS 504832-2310-4GEF-001
   504832-2310-4GEF-002
7. FOR TYPICAL SECTIONS AND DETAILS SEE DWG:
   504832-0000-41D1-0022
   504832-0000-41D1-0023
   504832-0000-41D1-0024
   PARA SECCIONES Y DETALLES TIPICOS VER DIBUJOS: 504832-0000-41D1-0022
   504832-0000-41D1-0023
   504832-0000-41D1-0024

CONSTRUCTION STRATEGY:
ESTRATEGIA DE CONSTRUCCION

1. CONSTRUCT COFFERDAM
   CONSTRUIR EL DIQUE
2. CONSTRUCT CONSTRUCTION DIVERSION CHANNEL IF APPLICABLE; OR IMPLEMENT OTHER DEWATERING MEASURES.
   CONSTRUIR EL CANAL DE DESVIO DE CONSTRUCCION SI ES APLICABLE; O IMPLEMENTAR OTRAS MEDIDAS DE DESVIO DE AGUA
3. CONSTRUCT NORMAL OPERATING WATER LEVEL DISCHARGE PIPE
   CONSTRUIR LA TUBERIA DE DESCARGA DE NIVEL DE AGUA EN OPERACION NORMAL
4. INSTALL INLET STRUCTURE
   INSTALAR LA ESTRUCTURA DE ENTRADA
5. PLACE AND COMPACT ENGINEERING FILL IN THE DAM AND AROUND ALL PIPES AND SEEPAGE COLLARS.
   COLOCAR Y COMPACTAR EL RELLENO TECNICO EN LA PRESA Y ALREDEDOR DE LAS TUBERIAS Y LOS COLLARES DE FILTRACION
6. FILL THE DIVERSION CHANNEL, IF APPLICABLE
   LLENAR EL CANAL DE DESVIO, SI ES APLICABLE
7. CONSTRUCT MAIN DAM AND SPILLWAY
   CONSTRUIR PRESA PRINCIPAL Y VERTEDERO
8. CLOSE THE LOWER INLET TO THE INLET STRUCTURE
   CERRAR LA PARTE BAJA HACIA LA ESTRUCTURA DE ENTRADA



KEY PLAN
PLANO CLAVE

ABBREVIATIONS:
ABREVIACIONES:

PSP	PORT SEDIMENTATION POND *POZA DE SEDIMENTACION DEL PUERTO*
HDPE	HIGH DENSITY POLYETHYLENE *POLIETLENO DE ALTA DENSIDAD*
CS	CARBON STEEL *ACERO AL CARBONO*

RELEASED FOR CONSTRUCTION

SCALE IN METRES / *ESCALA EN METROS*: 0 5 10 15 (10)

NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.
04	12/09/26	RELEASED FOR CONSTRUCTION							
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00	12/04/19	RELEASED FOR CONSTRUCTION	WC	HB	WP	BM			

	NAME (PRINT)	INT.	DATE
DESIGNED	K.HOJKA		12/02/13
DRAWN	MP JACINTO		12/02/16
CHECKED	H.BABA		
APPROVED LEAD ENG.	W.PALMER		12/12/27
APPROVED ENG. MAN.			
APPROVED AREA MAN.	WOODWARD		27/9/12
APPROVED AREA LEAD.			
APPROVED ENG. MAN.			

SCALE: 1:300

REPRESENTANTE LEGAL
LEGAL REPRESENTATIVE

DOCUMENTO DE INDENTIFICACIÓN:
IDENTIFICATION DOCUMENT:

TITULO
PROYECTO MINA DE COBRE PANAMA
DESAROLLO DEL SITIO DE PUERTO
PREPARACION DEL SITIO DE PUERTO
POZA DE SEDIMETACION 7 - CONTRATO C-9012A
PLANO

Minera Panamá

CLIENT

JV/P Joint Venture Panama Inc.

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PROFESSIONAL ENGINEER | NAME | NO.

TITLE
MINA DE COBRE PANAMA PROJECT
PORT SITE DEVELOPMENT
PORT SITE PREPARATION
SEDIMENTATION POND 7 - CONTRACT C-9012A
PLAN

PROJECT NO.	AREA	DISC.	DOC.	DRAWING NUMBER	REVISION NUMBER
504832	6210	41	D1	0043	04

Format "A0" Sheet Size

DWG. NO.	REFERENCES	DWG. NO.	REFERENCES
6210-41D1-0044	PORT SITE DEVELOPMENT - PORT SITE PREPARATION SEDIMENTATION POND 7- SECTIONS		

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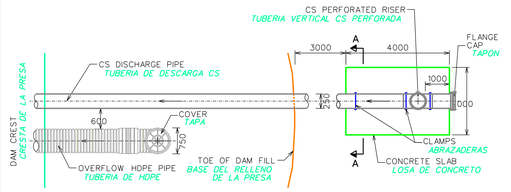
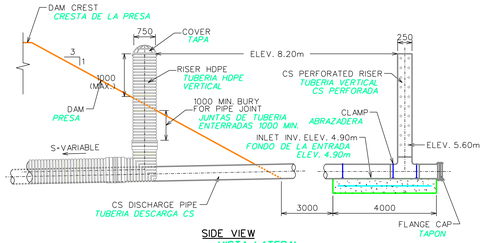
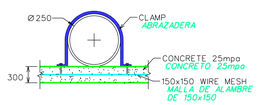


PLAN
PLANO



SIDE VIEW
VISTA LATERAL



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RISER AND DROP INLET STRUCTURE DETAIL
REFER TO DWG. 504832-0000-41D1-0023 (DETAIL 02)
NOT TO SCALE

DETALLE ESTRUCTURA TUBERIA VERTICAL E INGRESO POR CAIDA
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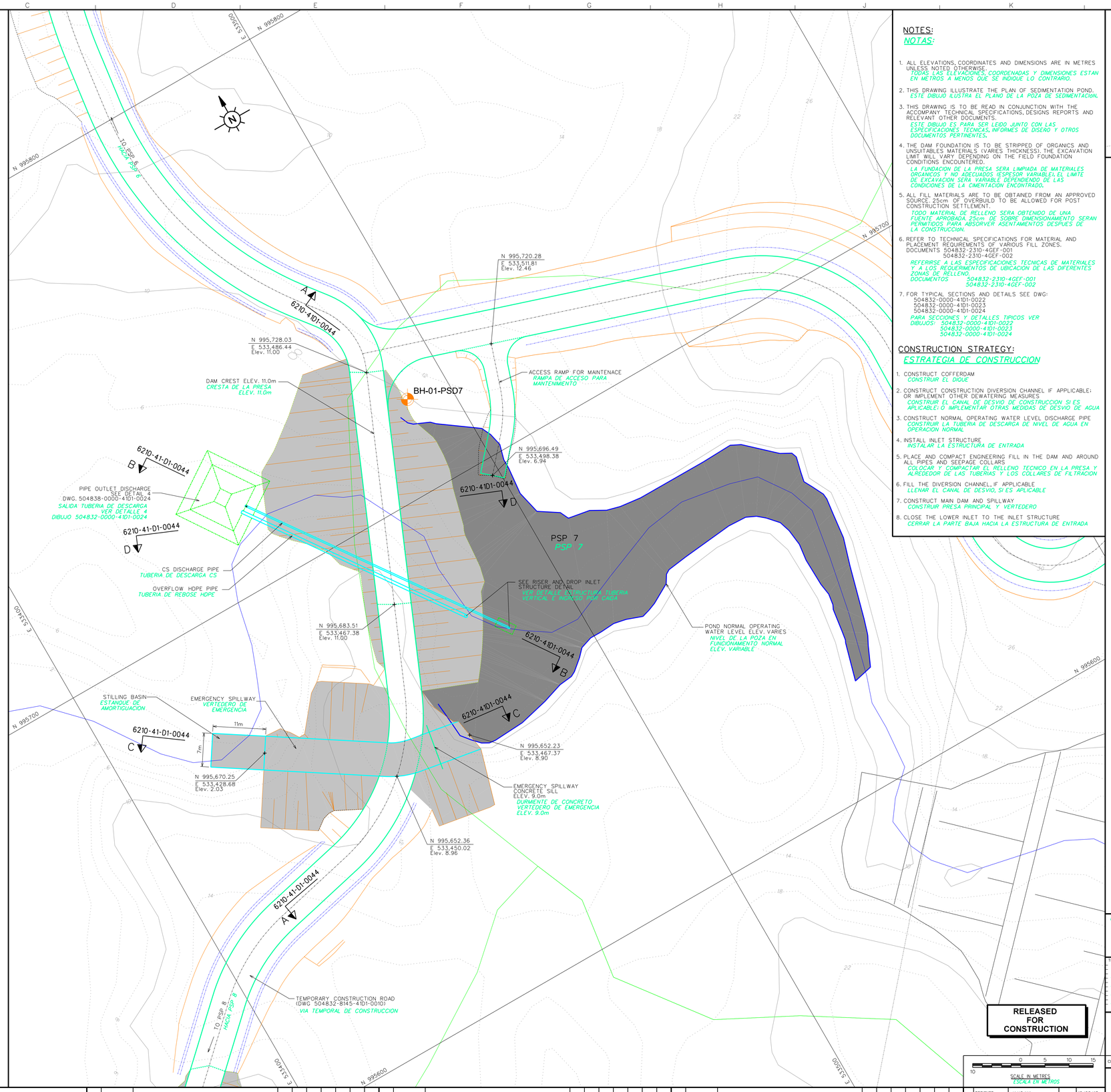

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7. FOR TYPICAL SECTIONS AND DETAILS SEE DWG:
   504832-0000-41D1-0022
   504832-0000-41D1-0023
   504832-0000-41D1-0024
   PARA SECCIONES Y DETALLES TIPICOS VER DIBUJOS: 504832-0000-41D1-0022
   504832-0000-41D1-0023
   504832-0000-41D1-0024

CONSTRUCTION STRATEGY:
ESTRATEGIA DE CONSTRUCCION

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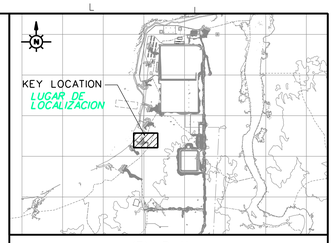

KEY PLAN
PLANO CLAVE

ABBREVIATIONS:
ABREVIACIONES:

PSP	PORT SEDIMENTATION POND *POZA DE SEDIMENTACION DEL PUERTO*
HDPE	HIGH DENSITY POLYETHYLENE *POLIETILENO DE ALTA DENSIDAD*
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PREPARACION DEL SITIO DE PUERTO
POZA DE SEDIMETACION 7 - CONTRATO C-9012A
PLANO

Minera Panamá

CLIENT

JVP
Joint Venture Panama Inc.

CLIENT DWG. NO.

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PROFESSIONAL ENGINEER | NAME | NO.

TITLE
MINA DE COBRE PANAMA PROJECT
PORT SITE DEVELOPMENT
PORT SITE PREPARATION
SEDIMENTATION POND 7 - CONTRACT C-9012A
PLAN

DESIGNED	K.HOJKA	12/02/13
DRAWN	MP JACINTO	12/02/16
CHECKED	H.BABA	
APPROVED LEAD ENG.	W.PALMER	
APPROVED ENG. MAN.		
APPROVED AREA MAN.		
APPROVED AREA LEAD.		
APPROVED ENG. MAN.		

JVP / CLIENT

PROJECT NO.	AREA	DISC.	DOC.	DRAWING NUMBER	REVISION NUMBER
504832	6210	41	D1	0043	04

SCALE 1:300 | NAME (PRINT) | INT. | DATE

NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.
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00	12/04/19	RELEASED FOR CONSTRUCTION	WC	HB	WP	BM			

DWG. NO.	REFERENCES
6210-41D1-0044	PORT SITE DEVELOPMENT - PORT SITE PREPARATION SEDIMENTATION POND 7- SECTIONS

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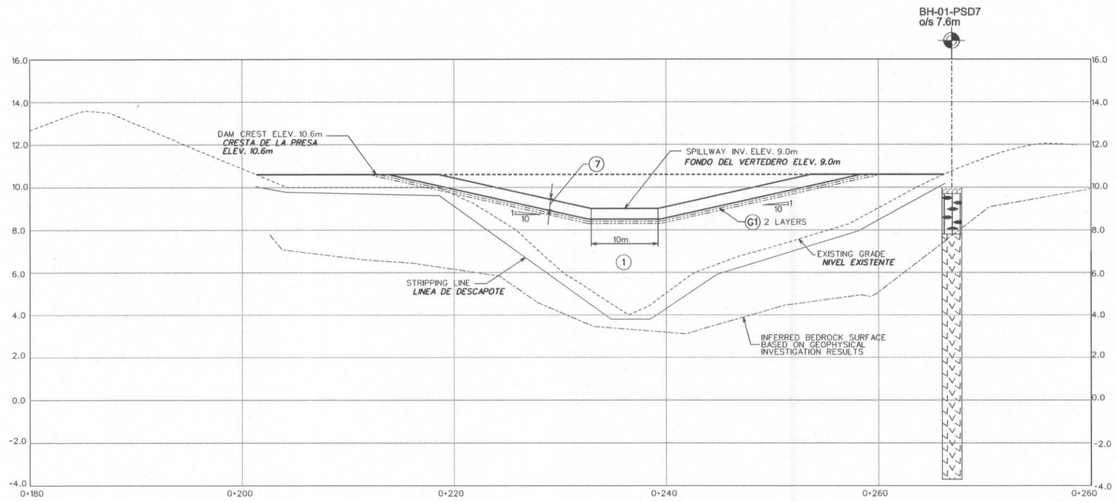
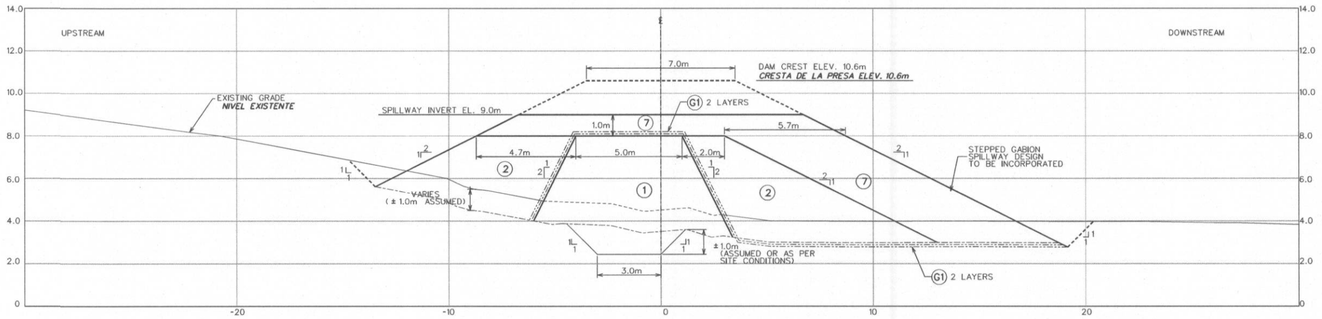


SECTION A-A 504832-6210-4GD1-0032
LONGITUDINAL SECTION ALONG DAM 7 CENTERLINE
SCALE - 1:200



SECTION B-B 504832-6210-4GD1-0032
DAM 7 CROSS SECTION

NOTES:
NOTAS:

1. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THIS DRAWING ARE IN METERS.
   TODAS LAS DIMENSIONES Y ELEVACIONES MOSTRADAS EN ESTE DIBUJO ESTAN EN METROS.
2. THIS DRAWING ILLUSTRATE THE SECTIONS OF THE DAM AND SPILLWAY OF SEDIMENTATION POND 7.
   ESTE DIBUJO ILUSTRA LAS SECCIONES DE LA PRESA Y VERTEDERO DE LA POZA DE SEDIMENTACION 7.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ACCOMPANY TECHNICAL SPECIFICATIONS, DESIGNS REPORTS AND RELEVANT OTHER DOCUMENTS.
   ESTE DIBUJO ES PARA SER LEIDO JUNTO CON LAS ESPECIFICACIONES TECNICAS, INFORMES DE DISEÑO Y OTROS DOCUMENTOS PERTINENTES.
4. THE DAM FOUNDATION IS TO BE STRIPPED OF ORGANICS AND THE REMOVAL OF UNSUITABLES MATERIALS (VARIES THICKNESS). THE EXCAVATION LIMIT WILL VARY DEPENDING ON THE FIELD FOUNDATION CONDITIONS ENCOUNTERED.
   LA FUNDACION DE LA PRESA SERA LIMPIADA DE MATERIAL ORGANICO Y SE ELIMINARAN LOS MATERIALES NO ADECUADOS (ESPESOR VARIABLE). EL LIMITE DE EXCAVACION SERA VARIABLE DEPENDIENDO DE LAS CONDICIONES DE LA CIMENTACION ENCONTRADO.
5. TRENCH WILL BE REQUIRED TO ACCOMMODATE THE DISCHARGE PIPE AND INTAKE STRUCTURE. THE DEPTH OF TRENCH WILL VARY FOR VARIOUS DAMS DEPENDING ON ACTUAL GROUND ELEVATION AND TO MEET THE DESIGN ELEVATIONS FOR THE INTAKE STRUCTURE.
   SE REQUERIRA UNA ZANJA PARA ACOMODAR LA TUBERIA DE DESCARGA Y LA ESTRUCTURA DE TOMA. LA PROFUNDIDAD DE LA ZANJA VARIARA PARA VARIAS PRESAS DEPENDIENDO DE LA ELEVACION DEL NIVEL EXISTENTE Y CUMPLIR CON LAS ELEVACIONES DE DISEÑO PARA LA ESTRUCTURA DE TOMA.
6. IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES.
   IMPLEMENTE MEDIDAS DE CONTROL DE EROSION Y DE SEDIMENTOS.

MATERIAL TYPES

1. IMPERVIOUS CORE (SAPROLITE)
2. EMBANKMENT SHELLS (SAPROCK)
7. ROCKFILL
G1. GEOTEXTILE

LEGEND:

LEGEND:

- RS - RESIDUAL SOIL
- SAP - SAPROLITE
- SAPR - SAPROCK
- BR - BEDROCK

REPRESENTANTE LEGAL
LEGAL REPRESENTATIVE

_____ _____

DOCUMENTO DE INDENTIFICACIÓN:
IDENTIFICATION DOCUMENT:

TITULO
PROYECTO MINA DE COBRE PANAMA

Minera Panamá

DWG. NO.	REFERENCES	DWG. NO.	REFERENCES	NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.	NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.	NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.
																								PA	12/10/02	ISSUED FOR INTERNAL REVIEW							

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SCALE IN METRES

JVP			
DESIGNED	L. LAU		12/10/02
DRAWN	A. CARRILLO		12/10/02
CHECKED	H. BABA		12/10/02
APPROVED LEAD ENG.	W. PALMER		12/10/02
APPROVED ENG. MAN.	T. PREISIG		12/10/02
APPROVED AREA MAN.			
APPROVED AREA LEAD.			
APPROVED ENG. MAN.			
CLIENT SCALE 1:100	NAME (PRINT)	INIT.	DATE

CLIENT

JVP Joint Venture Panama Inc.

PROFESSIONAL ENGINEER | NAME

CLIENT DWG. NO.

ESTE PLANO ES PROPIEDAD DE JOINT VENTURE PANAMA (JVP), SU USO Y REPRODUCCIÓN ESTÁ SUJETO A LOS TÉRMINOS DEL CONTRATO BAJO EL CUAL FUE ENTREGADO. NO SE PERMITE REPRODUCCIÓN A MENOS QUE SEA EXPRESAMENTE AUTORIZADA.

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NO.

TITLE
MINA DE COBRE PANAMA PROJECT

PORT SITE
SEDIMENTATION POND DAM 7
SECTIONS

PROJECT NO.	AREA	DISC.	DOC.	DRAWING NUMBER	REVISION NUMBER
504832	6210	4G	D1	0033	PA

Format "AD" Sheet Size

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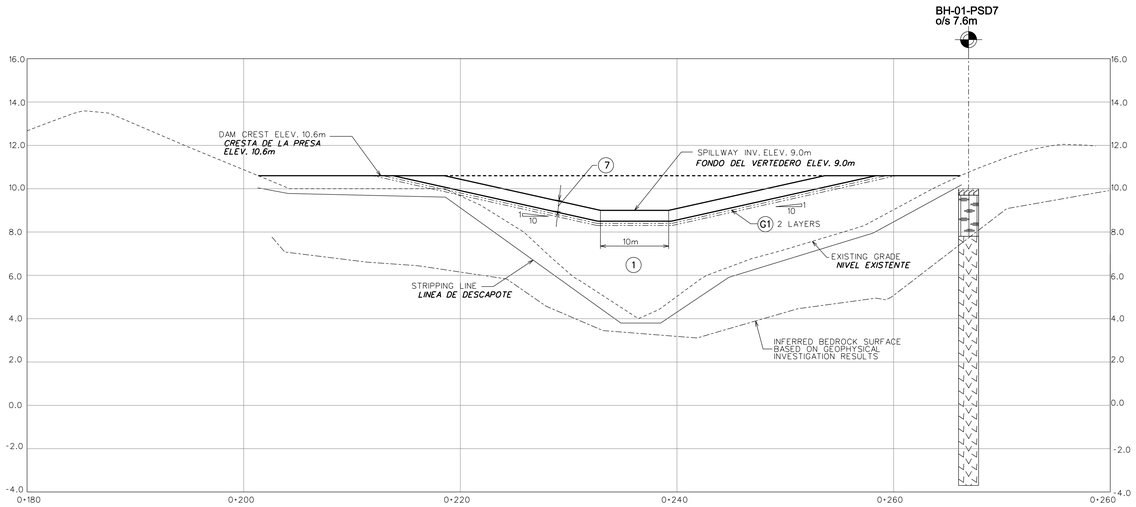
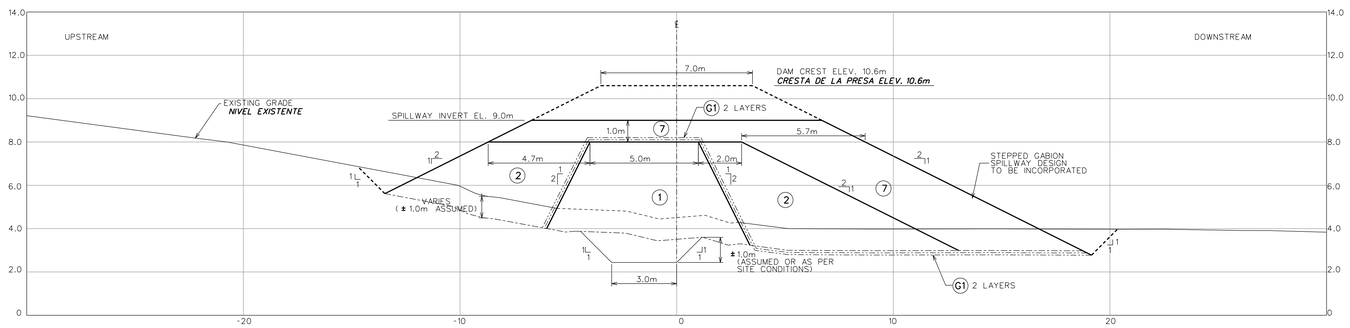


SECTION A-A 504832-6210-4GD1-0032
LONGITUDINAL SECTION ALONG DAM 7 CENTERLINE
SCALE - 1:200



SECTION B-B 504832-6210-4GD1-0032
DAM 7 CROSS SECTION

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LEGAL REPRESENTATIVE

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DOCUMENTO DE INDENTIFICACIÓN:
IDENTIFICATION DOCUMENT:

TITULO
PROYECTO MINA DE COBRE PANAMA

Minera Panamá

DWG. NO.	REFERENCES	DWG. NO.	REFERENCES	NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.	NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.	NO.	DATE	REVISIONS	BY	CHK	LEAD ENG.	ENG. MAN.	AREA MAN.	CLIENT AREA LEAD	CLIENT ENG. MAN.
																								PA	12/10/02	ISSUED FOR INTERNAL REVIEW							

0 1 2 3 4 5 6 7
1 SCALE IN METRES

JVP	DESIGNED	L. LAU	12/10/02
	DRAWN	A. CARRILLO	12/10/02
	CHECKED	H. BABA	12/10/02
	APPROVED LEAD ENG.	W. PALMER	12/10/02
	APPROVED ENG. MAN.	T. PREISIG	12/10/02
CLIENT	APPROVED AREA MAN.		
	APPROVED AREA LEAD.		
	APPROVED ENG. MAN.		
SCALE 1:100	NAME (PRINT)	INIT.	DATE

CLIENT
JVP Joint Venture Panama Inc.

CLIENT DWG. NO.

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PROFESSIONAL ENGINEER NAME NO.

TITLE
MINA DE COBRE PANAMA PROJECT

PORT SITE
SEDIMENTATION POND DAM 7
SECTIONS

PROJECT NO.	AREA	DISC.	DOC.	DRAWING NUMBER	REVISION NUMBER
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Format 'A0' Sheet Size

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